

No 103

G.

An Inaugural Dissertation
200 Arch St.

On the process adopted by nature
in the restoration of unrudd party, and
other injuries of the human system -

By William Finney
of Virginia.

Candidate for the degree of Doctor of
Medicine in The University of Pennsylvania

For the Spring of
1828

Jan 8th 1828

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On the process ~~described~~ by nature in the restoration of wounded parts, and other injuries of the human system -

A wound has been defined, a solution of the continuity of a part, communicating externally, and produced by mechanical violence.

Wounds differ in their nature, and appearance, from a variety of circumstances. They admit however, of a general division into incise, and contuse, the latter including punctured, lacerated, and gunshot wounds. Incise wounds are made with a sharp cutting instrument; and the part sustains no injury. Contuse wounds, or those in which the surrounding parts are bruised and injured -

Of Incise wounds

When these are of small extent, and made in fleshy parts unaccompanied by a division

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bag, to
be a be-
ing of man
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division of any considerable blood vessel, the surgeon, by causing it to approximate the sides of the wound, and retaining them in contact enables them to unite; and they speedily heal. All incised wounds are attended by some loss of blood, and this in many instances is great, as to form the chief danger of the case. As there is no subject of greater importance to the surgeon, than that of hemorrhage, it may not be improper here, to offer a few remarks upon it—

Of Hemorrhage—

In regard to the best means of arresting hemorrhage, they may readily be arranged under two heads, (the first) that furnishes us by art, and that which more strictly depends on the operation of nature alone; Of the former, as they would come more particularly within the province of the surgeon, I shall say but little, of the latter, the following extract from the writings of Dr. Jones, I deem fully adequate to the purpose in view with

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not say any thing further on the subject

In order to ascertain the natural process by which the bleeding from a wound is arrested, it is requisite to attend to some of the phenomena, which follow the opening of large blood vessels. It is now nearly a century since Mr. Petit commenced the investigation of the present subject, and since his time, a variety of theories have been advanced, to explain the natural means by which the bleeding from disease, or from a wound is stopped.

Dr. Ansg. in an able publication on this subject, has collected into one view, these various and discordant doctrines, has extracted from each, what appears from all upon fact, and by very numerous and interesting experiments, appears to have gone far in developing the truth—

By—

Let the same
be made.
The most delicate
tation, but
may each
live in the
of peace.

The purpose of
the circular
common,
but by
proceeding,
with co-
operation
to connect
the whole

By these experiments he ascertained, that the sides of the arteries, were divisible into three coats. The internal one, is extremely thin, and smooth, it is elastic and firm, (considering its delicate structure) in the longitudinal direction, but so weak in the circular as to be very easily torn by the slightest force applied in that direction. Its disease sheweth it is vascular and it is also probably sensitive.

The middle is the thickest, and is composed of muscular fibres, all arranged in a circular manner, they differ however from common muscular fibres in being more elastic, by which, they always keep a degree open, and of a cylindrical form. As this middle coat has no longitudinal fibres, the circular fibres are held together by a slender connexion, which yields readily to any force applied in the circumference of the artery.

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[Faint, illegible handwriting covering the majority of the page]

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The external coat is remarkable, for
is whitish, dense, and great elasticity;
shows an artery is torn even now, by a slight
pressure to middle, and internal coats are, as
well totally divided as they come, by a hump,
into the external coat remains entire. —

Secondly, two border coats, all the while
was in their natural situation, was connected
by means of the fine cellular substance, with
surrounding membranous sheath, & an artery
to divide, the divided, hardly coming to their
partially, receive from each other, in the
middle of the cellular substance connecting
the artery, with the sheath, actually of course
making a continuous way within the sheath.

Another important fact is that
shows an artery is divided into small nodes, when
they contract in a greater, or less degree, pressure.
the contractions is generally, if not always of
permanent



as in wounds.

Arteries are furnished with an
 elastic, as well as a nervous, a structure,
 which makes them susceptible of every change,
 and which being of ducts are subjected in common,
 to the same inflammation, when injured, and
 to the same evacuation of lymph, by which
 the injury is repaired, or the tube permanently
 closed.

Hence, by a series of experiments
 on animals, Dr. Keil, was led to the conclusion that
 the blood, in action, passes over the structure
 of the artery, then sheath, and the cellular
 substance connecting them with it, and
 passes, in its being thrown from a direct,
 artery, of moderate size, in the following
 manner, an impetuous flow of blood, a violent
 and forcible retraction of the artery, with
 its sheath, a slight contraction of blood
 vessels.

the surface
of the water
is covered by
a thin layer
of oil which
floats upon
the water.

unity are the immediate and almost in-
 evitable effects of its division. The next
 and inevitable however, is that the blood
 (seen in), in some measure counteracts the
 retraction, and causes the contraction of the
 artery, & finally, ultimately, as it extrudes
 into the surrounding cellular membrane, in
 proportion to the open or confined state of the
 artery. The retracting artery causes the inter-
 nal surface of the sheath moving, by lacera-
 ting or stretching & the cellular fibres that
 connect them. These fibres entangle the blood,
 as it flows, and thus the form solidifies
 in the formation of a coagulum, at the mouth
 of the artery; and which at last is to be com-
 pleted by the time as at Gaping. Being a
 dry canal of the sheath, gradually, as it
 is, coagulating around its internal
 surface, till it completely fills it up from
 the circumference, to the centre.



The effusion of blood into the inter-
cellular membrane, and between
the artery, & its sheath, is a particular
diminution of the force of the circulation
from top of blood, as a passing or pulsation of
the fluid, - its circumferences, especially
instructing saying Dr. Brown, & the doctor, of
the artery, & its sheath, but a very pulsation, what
before, & after the arterial one at the mouth of
the artery, and within its sheath, forming the
true somatic sheath, & the continuation
of the blood, as a thought is seeing external
by like a continuation of the artery, not
settling open they repose, its termination
can be plainly observed with the ear, ulcers
shutting up its mouth, and containing in
the vessel -

The collateral branch being
near the umbilical mouth of the artery,
the blood just within it is not
usually



and giving a slender central expansion,
 and neither filling up the summit of the wing,
 nor extending very far, except by a small part
 of the circumference, over the base of the
 community of the apical. But the position of
 the apical from the former, is not the same,
 and the relation is —

The end of the apical, next to
 the wing, on the inner border, is not the same
 but filling up the extremity of the apical, it
 illustrates between the internal and intermediate
 apical, a considerable widening, with the
 passage of time, and is firmly united to
 the internal coat of the apical. In doing
 so, it is not that the form is an expression
 of the phenomena of clothing de haussier in this
 position of the apical, but that the end of the
 apical is also certainly, by a gradual contraction
 which it undergoes, and by an effort of
 contraction, between the wing, and into the sur-
 rounding



... of cellular substance, & hence those
 parts become, like bones, and incorporated,
 with each other, (but one cannot be discerned
 from the other, & once the union is
 complete, not held by the first intention, the
 assimilating lymph is effused, & it takes the
 form of the subjacent and lateral
 parts, thus forming a new covering, and entirely se-
 parating it from the outward, former.

The same circumstances occur in the
 union of the vessels of the eye, most evident
 from the heart. The surface becomes irregular,
 more contracted, and the external configuration
 is lost, the one which attaches itself to the other
 is cut out of the artery —

The impervious extremity of the
 artery no longer allowing blood to circulate,
 though it the portion which lies between
 the first lateral branch, goes on and on
 ...



is a carefully combined, attended, and
 to induce a firm, a dignified appearance.
 The external coagulation which in the first in-
 stance has stopped the hemorrhage, is absorbed
 & dissolving, and the coagulating supply
 of the wound is, in a short time, re-
 stored, & gradually unites, so that they
 resume again their cellular texture. —

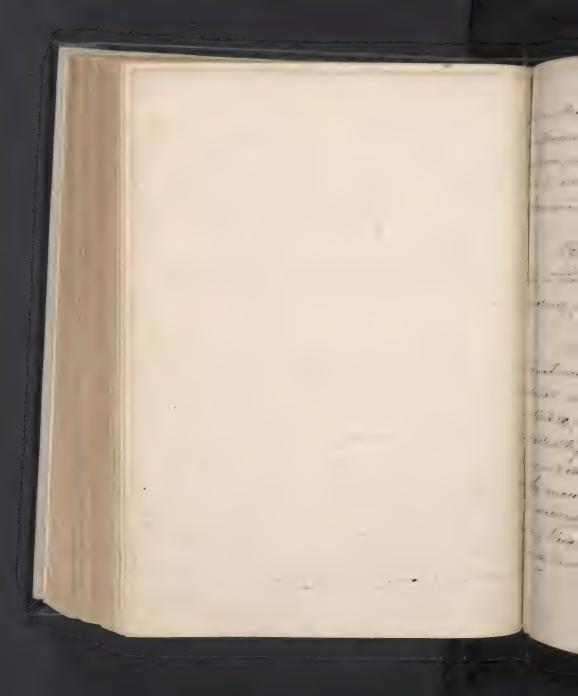
When the wound is closed, the coagulation
 is removed, & a firm, solid, & durable
 the wound is made more completely an-
 tiseptic. The wound is not more so, the first in-
 stance, & the wound is closed, & the wound
 is accomplished, the coagulation
 has been removed, & the wound is
 as free communication be-
 tween the wound, & the wound is
 my —

It is a very long time since
 the



some distance from a lateral incision
 by a regular incision: one of blood co-
 agulation, which chiefly retains mouth, one
 I think, just within the extremity of the
 vessel, and one of blood, within its cavity,
 — a coagulum is that of lymphoid nature,
 the vessel has been divided, near a lateral
 branch, no internal coagulum of blood is formed

The internal coagulum is always
 formed, when the divided artery is left to un-
 dergo its process, if not emerging, for in-
 the obliteration of the ligature it can-
 not form. If a vessel, like a branch, is shown
 used, its formation is doubtfully
 shown in general, when the degree of drop
 is that is used; but, the internal coagulum
 will be equally formed, whether the treatment
 is distention or not, if no collateral
 branch is near the divinator, or country of the ar-
 tery;



ing in a lasting effusion of blood, which, when
a sufficient quantity, forms a distinct he-
morrhoid, just as the mouth of the artery,
will be a source of blood, if the hemorrhage
be permanently suppressed.

Of the means which naturally
act, in the suppression of hemorrhage, from
hemorrhoids, or partially divided arteries.

The suppression of hemorrhage
is much more easily accomplished, by the
natural means, when an artery is comple-
tely divided, than when merely, partially
or partially divided; completely divided
arteries, as one way, practice.
In the ancients, in order to stop hemorrhage
the means frequently in the same kind,
were bleeding from the temporal artery,
artery, &c. &c.



It is a sort of a capital in every
country, it is only the money div. 200,000,000
the capital of the country is not in-
fluenced by natural causes; hence it was
the result of the diversity in each instance
it can be only a financial history.

[illegible][illegible]



into the two or three making them a small central
hole, or more prominent as the vessel is cast,
the other side.

These, rather than say the blood
clot is stopped by a coagulum, & more
correctly say that it is stopped by a thick
mass of coagulated blood, which then
remains thicker at the wound or heart
and gradually continues with the coagulated
blood lying between the artery and its sheath.

When an artery is severed, the
hemorrhage immediately following is sit-
ting at the place, between the artery and
its sheath, along the vessel's situation. &
the contraction in the sheath, & that in
the artery, so that they are not exactly
opposite to each other, and by that means
the flow of blood is confined by the heart,
and the pressure in the artery, and by
coagulating

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manutaining there, merely more further of
vision at close, —

When the coagulation blood, into
the external coagulum, of a dissection artery,
offers only a temporary barrier to the flow,
it is, by permanent substitution of
blood, by a process of reparation, or otherwise.

It has been well known, by many ex-
perienced surgeons whether arteries when
wounded, can heal without an ultimate
loss of the cavity of the vessel, in such
a manner as to carry on the circulation of
blood. The experiments of Dr. Astruc, show
a number of cases in which the artery
was completely lacerated, and the artery
was healed, only to a certain extent
the cicatrization in these cases is to com-
plete, that no vestige of the wound can

[Faint handwritten notes, possibly bleed-through from the reverse side.]

[Faint handwritten notes visible through the paper]

in the orifice, either on the external or internal sur-
 faces of the artery, and that some of these
 transverse wounds, when they do not exceed one
 fourth of the circumference of the vessel, are
 either not healed by an effusion of coag-
 ulating lymph from their inflamed lips, or are
 occasion little or no obstruction to the canal of
 the artery. It may still be questioned whether
 in the human body the same mode of union
 is affected —

When an artery of considerable
 magnitude is punctured, even by a sharp in-
 strument, the circular fibres in most cases contract
 so much, as to separate the sides of the
 wound a considerable distance from each
 other, so that as if a piece of the ves-
 sel had been removed. However, to effect the
 separation, first, a coagulum forms in the
 distance by the solid matter of the artery
 and often by the union of a coagulum natu-
 rally.



...on the cut side of the artery, but his manner
of the operation is so peculiarly gross, and
so permanent closure depending on the scar tissue
the regulating of the blood is more a matter
of quantity, and in many cases
probably a large majority of cases, of this
kind the arterial tube shut in some instances
the artery being as in the supermesenteric artery
which divides, by ligament, and then the coarctation
is completed without a reduction
of the arterial cavity. As I did not see
any instances of this, I was indebted to Scarpa
as I have, treatises on aneurism, & find
that he says of cases in which
his manner of union was effected, in the tra-
chial artery of a man Scarpa says that
even the artery healed in this manner
the cure is radical. He supposed the liga-
ment at the cicatrix than at any other
part. He was of course of such a nature
that it healed without an obliteration



[illegible]

the (lacking) result, as scarcely, a stain -
ing clothes. Lightly, has a structure of
the - of confusion, with the diminished power
to be carried on the circulation. In an
acute wound the vessels are injured only at
the diseased surface, in a contused wound they
are injured to a considerable distance, and
the true circulation the blood is forced out
of the vessels, by the external pressure, and
is extravasated, into the cellular tex-
ture, making a tumor, or a pimple, upon the skin
only. In the blood is a quantity of matter
which is contained in the vessels, in a
solidity as a gelation of a homogeneous mass in
the vessels of the blood. The intermingling of the
solid, being an often a tumor, below the
surface, and there, then in contact with
a matter, strictly as a gelation. The con-
solidation of the blood in the distended surfaces of the vessels
forming another obstacle to the homogeneous



Of the Treatment of Incised Wounds

In the treatment of incisive, parietal, &c. first things which draw attention of the doctor is a dislocation of the jaw to the lower & upper. If the jaw is in the lower position, the jaw is lower & the jaw is in the upper position -

[illegible]

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system of equations (1) has a solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

I have
 been
 very
 much
 interested
 in
 your
 work
 and
 hope
 to
 be
 able
 to
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 some
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 it
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by the first intention, the accident back being
 being uninjured, the co-pulsion, and also that
 which retaining their usual power of action, all
 the respective functions of extrication, absorb
 and have a firmation well performed, just as though
 an accident had happened. Hence the term
Union by the first intention. —

This method of cure, however, cannot al-
 ways be effecting. One when this is the case, nature
 can do it another plan, by which she repairs the
 injury the loss here, which has in the former in-
 tention, takes as the true of union, being un-
 derly lost, and the parts becoming hard, and
 in consequence of their tedious exposure
 induration, inflammation is excited, a ganglion
 is thrown out, and the cure effect in
 nearly the same space of time, as though
 it had been done by the first intention. So
 the effect of nature, the same writer has thought
 proper to apply the term, Union by the adhe-
sive



inflammation in the treatment of which the
 duty of the Surgeon, differs but little,
 from that of the former. The only differ-
 ence consisting, in the operations to be
 performed —

The latter difference indeed is but
 slight, in those two cases, that Pe-
 terson (Wilson) has thought proper to consider
 them as nearly synonymous terms, and con-
 siders that more or less inflammation must
 necessarily take place before a union can be
 effected. Dr. Keimel, however, does make a dis-
 tinction, (but how far such a distinction is
 correct, remains not for me to decide: And
 in case I disposed to advance an opin-
 ion, I should be in much like to place my
 argument, in competition, with either of
 these gentlemen. —

Since the adhesive inflam-
 mation,



first, which often happens, when there
is no room to do otherwise, and even, other
times, when they have actually some oppor-
tunity of doing so, and even, as in the case of
the public, for us to bring the views of
the world, and to take them to establish the de-
termining, substitution, is inevitable, (thus to
prevent this case, now becomes the chief duty
of the inroads. Every thing which is certain
to be inevitable, and improves the heart, and to
be known, and the most serious, and, finally,
the education, as substituted, in their stead,

In continuation of former, there is a new
sample, solutions of condensing & there is
improvement in the present. It is greater as before
and more to the nature in substance, of the
new & the old. —

The indications of cause are to
move against inflammation, to wit the
to evacuation.

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the edges which were greatly injured —

In the treatment of burns &c.,
 using the same indications, present them-
 selves as in similar success, in many cases we are
 however, careful to combat the inflammatory
 symptoms, by a strict observance of the
 antiphlogistic regimen. To prevent the ges-
 tation not observed, and to guard against se-
 vere hemorrhage, which in these cases
 has been exceedingly troublesome —

To illustrate the several points here
 the following case, which came
 under my own treatment, will fully
 satisfy, sufficient, as being my entire re-
 sulting into the discovery of brucine & many
 other things, which may lead to the discovery
 of the brucine in any way, brucine &
 other things —



the cutting, was done in the center,
of the field, too; a highly respectable gen-
tlemen of that country, in the midst of time,
the physician was according to a view of
it, a late inscription the day. The direction
the character in this case, although it was
in the the knife on entering on the out-
side of the libia, just a few inches below the
line of the libia, below in to a considera-
ble distance between the two 'mags of the limb
as a device, completely, the anterior libial,
and intercostal arteries. But the arterial -
line of the wound was in a sufficient
length, to admit of a free discharge of blood
and return of service, and the hemorrhage
did not at first, very profuse, soon
nearly ceased, so that by the time the sur-
geon arrived, there was immediately ceased,
there was no sign of bleeding whatever -

As every other surgeon. Surgeon
Jones

[illegible]

in the ^{most} ~~best~~ ^{circumstances}, he immediately
brought the ends of the wound together, dressed
with the adhesive strips, and over these a
very simple dressing. The patient was ordered to
be kept quiet, and the wound treated, not as if
it had been a simple incision wound. —

But in a few days, the patient was seized
with rigors, ^{and other symptoms} of suppuration, which
brought a Physician, who immediately mis-
taking for an attack of bilious fever, directed
his remedies accordingly. Thus by entirely
overlooking the local injury, for what he now
thought to be, a constitutional disease, large
evacuations of matter, and extensive ulcers
were allowed to form, until the limb had become
completely disorganised, & such excruciating
in the top of the limb —

Now it is my impression, that had
he at first been freely and extensively bled,
and so evacuated completely the matter,

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as seen as some symptoms, consisting of indic-
 ations of a formation of bag; has, made their
 appearance, a profuse hemorrhage, would
 immediately have ensued, and the nature of
 the case would have been fully developed,
 the artery might now have been secured,
 and he lay it in his power, and the limb
 in obtaining the treatment - makes on such
 occasions, 'probably case'; —

It would indeed, appear incredible,
 but such is the case, as the above notices, should
 have been directed without at once straining
 the life of the patient, in the utmost jeopar-
 dy, from the excessive hemorrhage, which it
 might be supposed, would necessarily have
 ensued. But that such was the fact, can
 be sufficiently attested, by one of the most
 respectable surgeons, of our Country, who
 on the 13th day after the accident, was called
 to visit the patient, and whose presence

* It may now be remembered that, by a careful inspection of the limb, after it was taken off, the following facts were distinctly
by seen by the operator —

any of our words to combat it. — *

in regard to the treatment of gun
shot-wounds, I shall only remark, that as they
occur, come more particularly under the head, of
contused wounds, so will be their treatment, the
same, as in all other contused wounds, varying
only, according to the proportional extent of
the injury sustained. —

I shall therefore beg leave to pass —
them over altogether, for the more important con-
sideration of fractures, of which I shall only
venture a few remarks, and then return
the subject to a close. —

Of Fractures

The manner of fractures being, is ex-
actly in nearly the same manner as his wound
is, & partly the influence of the humors
of coagulating lymph which becomes
solid and granulated by a deposition of
bone.



calves converted into a bone —

The emitting medium's caloric calling
is at first soft, but gradually becoming firmer,
and at length completely ossified —

But in old subjects, even in Scotland
the caloric is very strongly developed, and
the bones become brittle and carious, (I believe)
and it forms just an artificial joint sometimes
even. They may occur in any bone, though it is
not frequently met with in the humerus, & is some-
times met with in the tibia, as most —
usually forming a considerable fraction of the bone.

It is said they can stand a strong moll-
ifying process, but the better, Dr. H. Hunter,
was told by someone of his friends, that
the bone is so brittle for a time it will not
stand any treatment of caloric. In some instances
the bone has been known to crack & shatter —

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... is a sufficient degree, to effect a cure,
 we require cutting down, & sawing off the way
 the broken bone has been known to success, when
 any other remedy has failed. Cases of this nature,
 which have been in the same house is related by Dr.
 Wilson, in which Dr. Wilson, by sawing off the end
 of a dislocated humerus, was enabled to effect a per-
 fect cure, after the bone had been twice, ineffectually
 tried, -

Not decisively, the best mode of treat-
 ment, which, both on account of the facility of the
 operation, & comfort of the patient, is the one most
 practicable, and for a long time practised by our most
 celebrated surgeon, Mr. Ferriar, (to wit) that of separ-
 ing a suture between the dislocated end of the
 bone, & the operation, by many surgeons, has been
 also, in modern times, the prevailing idea, that it could
 not succeed in the thigh bone. But that this
 opinion was proved false has been sufficiently
 shown by Mr. Ferriar, and other Europeans who

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Use further confirmation of the fact, the
illness was so violent, came with me, over-
powered me, still I hope, but the question is, was
it a solidly of a doubt.

A black boy, belonging to Mr. M.
a respectable farmer of the County of Chester
Co. Virginia, had a compound fracture of the
right leg, which by a neighboring Physician,
who was at first called in, was treated, with
much pain. But in consequence of some reg-
ret in the heart of the malinger, or interference
of the patient, the long fissure, is made, & a cer-
tain amount of callosity, and the mass of
the bone still remaining in that position. It
was thought advisable to call in another Phy-
sician, accordingly, my (dear brother, Dr. John R.
Wentworth, a graduate of the Medical College
of Maryland) having since discovered a piece
of patient a fair chance, and if possible to
stop the cure, without the use of the seton,
He

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He was once more induced to try this simple operation, at first a couple, with the hope of at last effecting his purpose, without the necessity of so painful an operation. But finding that every effort which he made only proved fruitless, and contributed rather to protract, and increase the sufferings of his patient, without answering any good purpose, he at length resolved to try the second, and accordingly on the 29th of Nov. 1817, a greatly to the disadvantage of the patient, the operation was performed, and in five or six weeks, to his great satisfaction, a most perfect cure ensued, and the Boy as fine healthy man, still continues with his mother, a living witness of the success of the operation, and of its entire superiority over every other —

Thus Gentlemen, in the case above stated, you observe that this operation has succeeded in the os femoris, as well in our own, as in the Euro-
pean Countries. And that instead of four or five
months, the time usually allowed, a most perfect cure
has

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has been established in the short space, of five
 or six weeks. which proves more clearly, than
 any argument I could advance, that the success
 of this operation, must depend, as much on
 the age, constitution, and habits of the patient,
 as upon the superior skill, and judicious man-
 agement of the attending Physicians —

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

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The 3rd